

Claims

I Claim:

1. An engine oil system acid filter comprising,
5 metallic fibers, the metallic fibers capable of neutralizing acid.
2. The filter of claim 1, further comprising,
a porous sheet, the porous sheet comprising the metallic fibers.
3. The filter of claim 2, wherein the porous sheet further comprises non-metallic
fibers.
- 10 4. The filter of claim 2, wherein the metallic fibers comprise at least one of the
following list of metals or alloys thereof,
zinc,
magnesium,
cadmium, or
15 calcium.
5. An improved engine oil system, wherein the improvement comprises,
a multipurpose component made with metal capable of neutralizing acid, the
multipurpose component in contact with oil.
6. The improved engine oil system of claim 5, wherein the multipurpose component
20 is one of the following list of components,
a sump pan,
an oil screen,
a porous oil filter,
a baffle,

an oil scraper, or

an outer casing of a filter.

7 The improved engine oil filter of claim 6, wherein the multipurpose component

5 comprises at least one of the following list of metals or alloys thereof,

zinc,

magnesium,

cadmium, or

calcium.

10 8. A filter for use in an engine oil system comprising,

a porous sheet, the porous sheet comprising a metal capable of neutralizing acid.

9. The filter of claim 8, wherein the porous sheet comprises,

a foil, the foil having openings therethrough.

10. The filter of claim 8, further comprising,

15 a mechanical filtration material.

11. The filter of claim 8, wherein the porous sheet comprises at least one of the

following list of metals or alloys thereof,

zinc,

magnesium,

20 cadmium, or

calcium.

12. An engine oil system acid filter comprising,

metallic powder, the metallic powder capable of neutralizing acid.

13. The acid filter of claim 12, the acid filter further comprising,

a porous sheet, the sheet having pores sized such that oil may pass through the pores but the metallic powder may not pass through the pores.

14. The acid filter of claim 13, wherein the acid filter comprises,
5 an oil filter, the oil filter having an inlet and an outlet, the oil filter comprising,
a dirty side proximate to the inlet, and
a clean side proximate the outlet, and wherein
the porous sheet is positioned between the dirty side and the clean side, and
the metallic powder is positioned between the inlet of the oil filter and the porous sheet.

10 15. The acid filter of claim 14, wherein the metallic powder comprises at least one of
the following list of metals or alloys thereof,
zinc,
magnesium,
cadmium, or
15 calcium.